

ABSTRACT

QUANTITATIVE ANALYSIS OF FORMALIN CONTENT OF COSMETIC *CONDITIONER* PRODUCTS BY UV-VIS SPECTROPHOTOMETRY METHOD

Ludfia Marthasya Putery

Cosmetics are materials used on the outer body to care for and beautify oneself. Cosmetic products have been widely used in the community, one of which is the use of *conditioners* used for extra care of hair. One of the types of preservatives used in cosmetics that is often used is formalin. The permissible use of formalin is 0.1% for oral hygiene preparations, and 0.2% for all cosmetic preparations other than oral hygiene preparations. This study was conducted to analyze the formalin content in *conditioner* samples using the UV-Vis spectrophotometer method and nash reagent. The results obtained from this study are the actual level of formalin solution after calibration is 37.95%, the selected wavelength is 410 nm obtained from the working raw solution of 0.0664125 mg/L with an absorbance of 0.371. The correlation coefficient (r) obtained was 0.9933. Of the 6 *samples of conditioners* were detected to contain formalin but still below the safe limit.

Keywords : cosmetics, *conditioners*, formalin, nash reagents, UV-Vis spectrophotometry